

Title (en)

METHOD FOR PRODUCING FLUORINE-CONTAINING POLYETHER CARBOXYLIC ACID AMIDE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FLUORHALTIGEM POLYETHERCARBOXYLSÄUREAMID

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN AMIDE D'ACIDE POLYÉTHÉR CARBOXYLIQUE CONTENANT DU FLUOR

Publication

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Application

EP 10767009 A 20100416

Priority

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- JP 2009103036 A 20090421

Abstract (en)

A fluorine-containing polyether carboxylic acid amide represented by the general formula: $C_n F_{2n+1} O(C_3 F_6 O)_m R_f CONHAr$, wherein R_f is a fluorocarbon group having 1 to 2 carbon atoms, Ar is a nitrogen-containing heterocyclic group, n is an integer of 1 to 3, and m is an integer of 10 to 30, is produced by reacting a fluorine-containing polyether carboxylic acid fluoride represented by the general formula: $C_n F_{2n+1} O(C_3 F_6 O)_m R_f COF$, wherein R_f , n , and m are as defined above, with a nitrogen-containing heterocyclic amine compound represented by the general formula: $ArNH_2$, wherein Ar is as defined above; wherein the reaction is carried out while a reaction temperature is first increased to 80 to 100°C, and then increased at a temperature increase rate that produces a temperature difference of 3 to 5°C after 48 hours.

IPC 8 full level

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